## <u>CLAIMS</u>

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<b>\1</b> .	Apparatus for intelligently redirecting data traffic from a Public
Switched To	elephone Network (PSTN) to a data network, the apparatus
comprising	

an intelligent communications platform connected between a switch and a Signaling System 7 (SS7) network to intercept SS7 messages between the switch and the SS7 network; and

a communications control module connected to the intelligent communications platform via a Transmission Control Protocol/Internet Protocol (TCP/IP) link, the communications control module for providing management and communications to the ICP and providing access to the management and communication for a plurality of subscribers.

- 2. The apparatus of claim 1 wherein the ICP includes: an SS7 I/O card for processing SS7 messages; and a CPU card for processing ISUP and TCAP.
- 3. The apparatus of claim 1 wherein the communications control module includes:

instructions for receiving messages from other ICPs for updated information on congestion on certain routes.

4. The apparatus of claim 1 wherein the communications control module includes:

instructions for receiving messages from other ICPs for updated information on congestion on certain routes.

<b>5</b> .	The apparatus of claim 1 wherein the communications control
module inclu	ndes:

instructions for the plurality of subscribers to enter respective access line availability, alternative access numbers; and instructions for a plurality of users to populate respective user profiles.

- 6. The apparatus of claim 1 wherein the GUI allows internet service providers (ISP) to update information on status of a plurality of modem banks within the ISP.
- 7. The apparatus of claim 1 wherein the GUI allows a network engineer to view traffic congestion and redirect traffic if necessary.
- 8. A system for intelligently redirecting data traffic from a Public Switched Telephone Network (PSTN) to a data network, the system comprising:

instructions for an intelligent communications platform connected between a switch and a Signaling System 7(SS7) network to intercept SS7 messages between the switch and the SS7 network; and

instructions for a communications control module connected to the intelligent communications platform via a Transmission Control Protocol/Internet Protocol (TCP/IP) link to provide management and communications to the ICP and to provide access to the management and communication for a plurality of subscribers.

9. The system of claim 8 further including: instructions for an SS7 I/O card to process SS7 messages; and instructions for a CPU card to process ISUP and TCAP.

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necessary.

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1	10. The system of claim 8 further including instructions for receiving
2	messages from other ICPs for updated information on congestion on certain
3	routes.
1	11. The system of claim 8 further including instructions for receiving
2	messages from other ICPs for updated information on congestion on certain
3	routes.
1	12. The system of claim 8 further including:
2	instructions for the plurality of subscribers to enter respective access
3	line availability, alternative access numbers; and
4	instructions for a plurality of users to populate respective user profiles.
1	13. The system of claim 8 further including instructions for the GUI
2	to allow internet service providers (ISP) to update information on status of a
3	plurality of modem banks within the ISP.
1	14. The system of claim 8 further including instructions for the GUI
2	to allow a network engineer to view traffic congestion and redirect traffic if

15.	A method for intelligently redirecting data traffic from a Public
Switched Tele	ephone Network (PSTN) to a data network, the method
comprising:	

intercepting Signaling System 7 (SS7) messages by an intelligent communications platform connected between a switch and a Signaling System 7 (SS7) network, wherein the SS7 messages are from the switch and to the SS7 network;

providing management and communications control from a communications control module connected to the intelligent communications platform via a Transmission Control Protocol/Internet Protocol (TCP/IP) link; and

providing access to the communications control module to a plurality of subscribers.

- 16. The method of claim 15 further including: processing SS7 messages with an SS7 I/O card; and processing ISUP and TCAP messages with a CPU card.
- 17. The method of claim 15 further including receiving messages from other ICPs for updated information on congestion on certain routes.
- 18. The method of claim 15 further including receiving messages from other ICPs for updated information on congestion on certain routes.

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1	19. The method of claim 15 further including:
2	providing the ability for the plurality of subscribers to enter respective
3	access line availability, alternative access numbers; and
4	providing the ability for a plurality of users to populate respective user
5	profiles.
1	20. The method of claim 15 further including providing the ability for
2	the GUI to allow internet service providers (ISP) to update information on
3	status of a plurality of modem banks within the ISP.
1	21. The method of claim 8 further including providing the ability for
2	the GUI to allow a network engineer to view traffic congestion and redirect
3	traffic if necessary.